TP-POE-xx-WP

DATA SHEET

Wall Plug POE Injectors

Features

- **Remotely Power Equipment thru CAT5 Cable up to 100m**
- **Autoranging Switching Power Supply: 100-240VAC**
- **Short Circuit, Over Current and Over Voltage Protection**
- **Powerful 24W Passive POE Output**
- **CE Certified, Meets RoHS Requirements**
- **Compact size – Convenient Wall Plug Design**

Applications

- **Wireless Access Points and Client Devices**
- **IP Phone and Security Camera Systems**

Description

The TP-POE-xx-WP Power Over Ethernet Power Sources are a low cost Passive POE inserter/injector compatible with a wide variety of passive POE powered devices. They are midspan devices, which means there is a data-in port and an output port with data and power. The RJ45 connectors are shielded so that the CAT5 cable shielding path is not interrupted between the data source (computer, router or switch) and the device being supplied with POE power. The small size and convenient wall plug design helps keep the installation simple and clean. The low cost makes them very affordable.

They work by supplying power to the remote device on the unused Ethernet pins 4,5(V+) and 7,8(V-). The Ethernet spec supports distances up to 100m (328 feet).

The units are autoranging so that they accept AC inputs from 90VAC to 264VAC (50/60 Hz) and they supply regulated DC Voltage at the POE output. They have various protections for short circuit, overload and overvoltage. They have power output of up to 24W. They are available in 15V, 24V and 48V DC Output with load regulation within 5%. They have an LED to indicate power on.

Device Pinouts

RJ-45 Input (Data Only)			RJ-45 Output (Data & Power)	
Pin	***Symbol***	***Description***	***Symbol***	***Description***
1	RX+	Data Receive(+)	RX+	Data Receive(+)
2	RX-	Data Receive(-)	RX-	Data Receive(-)
3	TX+	Data Transmit(+)	TX+	Data Transmit(+)
4	NC	No Connection	+Vdc	DC power(+)
5	NC	No Connection	+Vdc	DC power(+)
6	TX-	Data Transmit(-)	TX-	Data Transmit(-)
7	NC	No Connection	-Vdc	DC power(-)
8	NC	No Connection	-Vdc	DC power(-)

General Specifications

AC Input	90-264VAC 47-63Hz
Max Inrush Current (120VAC)	30A
Input Current	1A
Efficiency	80% Min
Line / Load Regulation	3% / 5%
Ripple / Noise	200mV p-p
Turn-On Delay	2 Seconds Max
Rise Time	40 mS Max
Protections – Auto Recover	Over-Voltage, Short Circuit, Over-Current
Safety and EMC Standards	CE
Environmental Standards	RoHs
Operating Temperature	-10 to +40°C (14 to +104°F)
Operating Humidity (RH)	5% - 90%
Storage Temperature	-20 to +85°C (-4 to +185°F)
Case Dimensions	83 x 44.5 x 34.3 mm (3.25 x 1.75 x 1.35”)
Weight	114g (4 oz)
AC Plug Type	North American
Network Connector Type	RJ45 Shielded
POE Type	Passive POE (Pins 4,5 V+, Pins 7,8 V-)

Notes:

- All shipments F.O.B. Bluffdale, UT 84065
- Tycon Power Systems Power Sources carry a 1 year warranty

System Ordering:

Product Selector	POE Output Voltage (+/- 2.5%)	Output Current	Output Power
TP-POE-15-WP	15V	1.5A	22.5W
TP-POE-24-WP	24V	1A	24W
TP-POE-48-WP	48V	0.5A	24W

For further information contact:

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